ETI2418P4US1

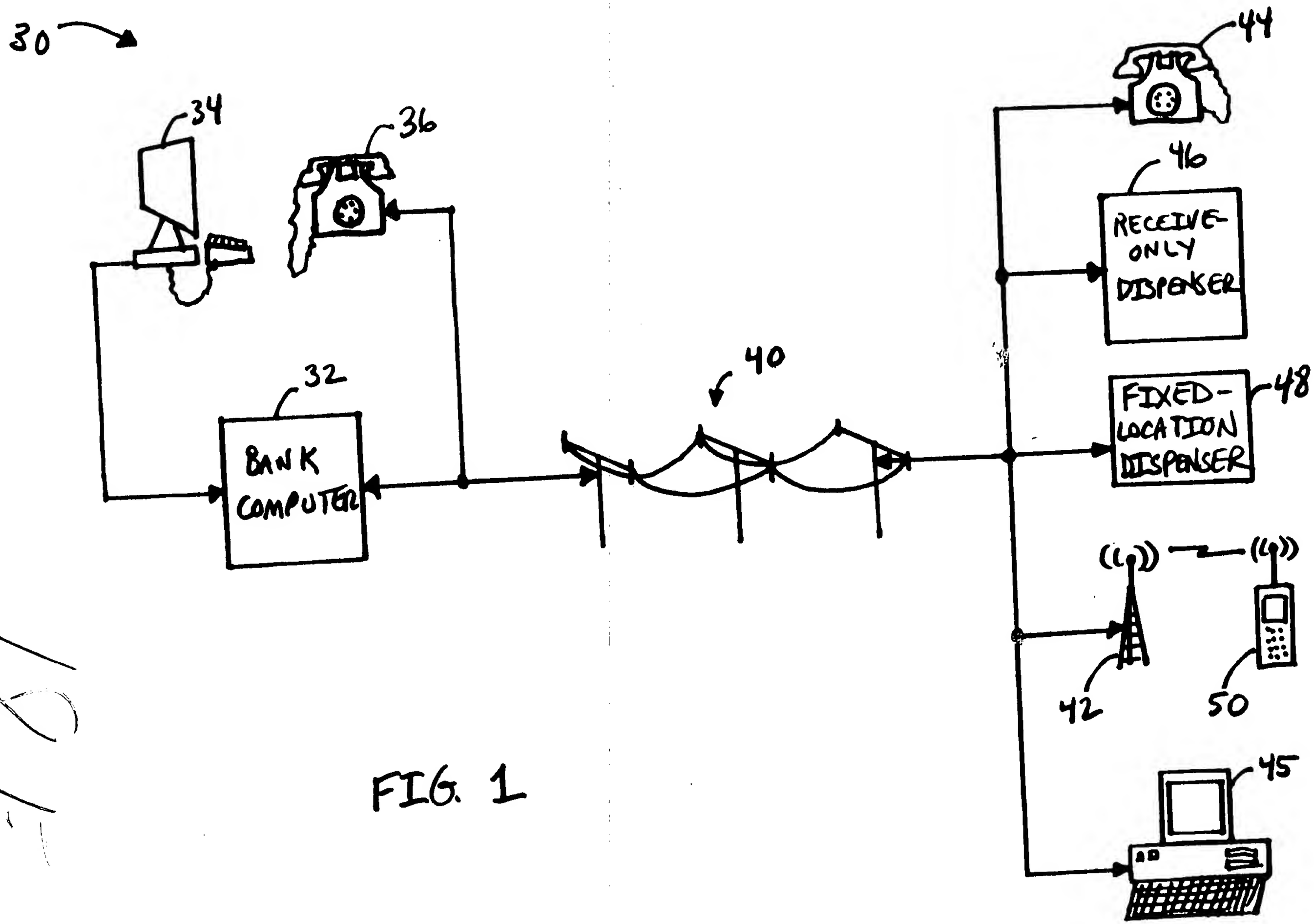
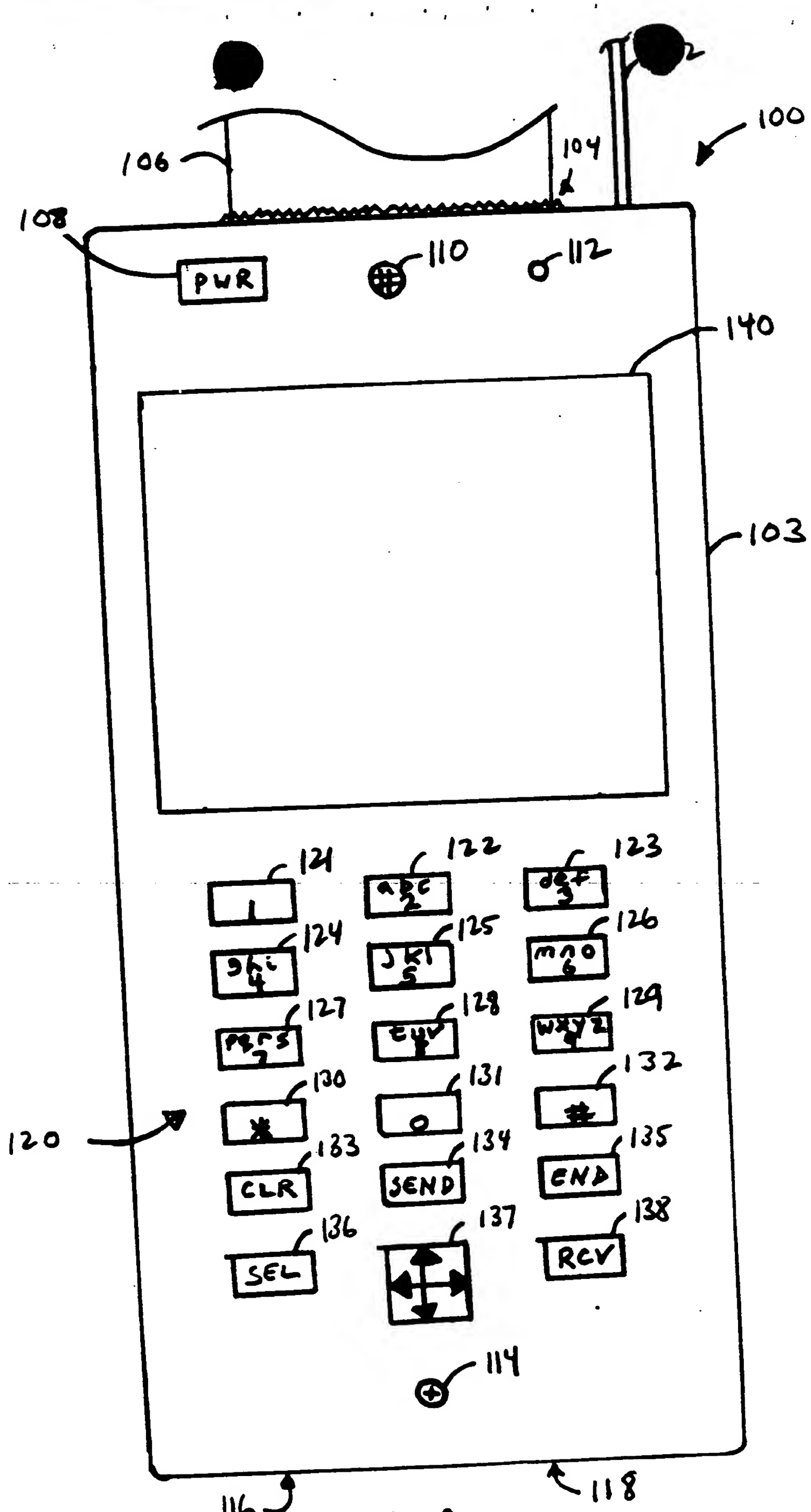


FIG. 1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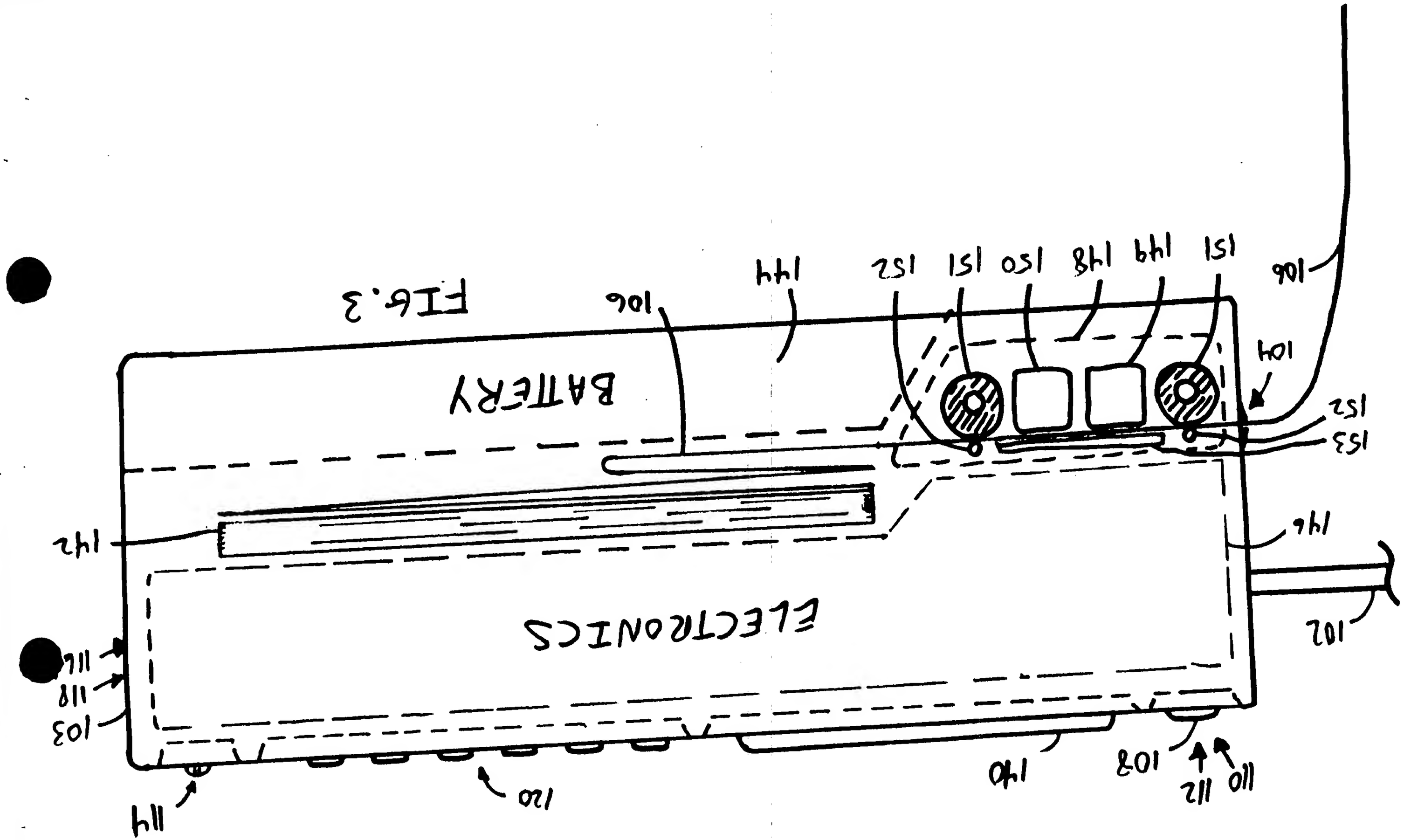
CLR
SEND
END
SEL
RCV
114
116
118

FIG. 2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ELECTRONICS
BATTERY

FIG. 3

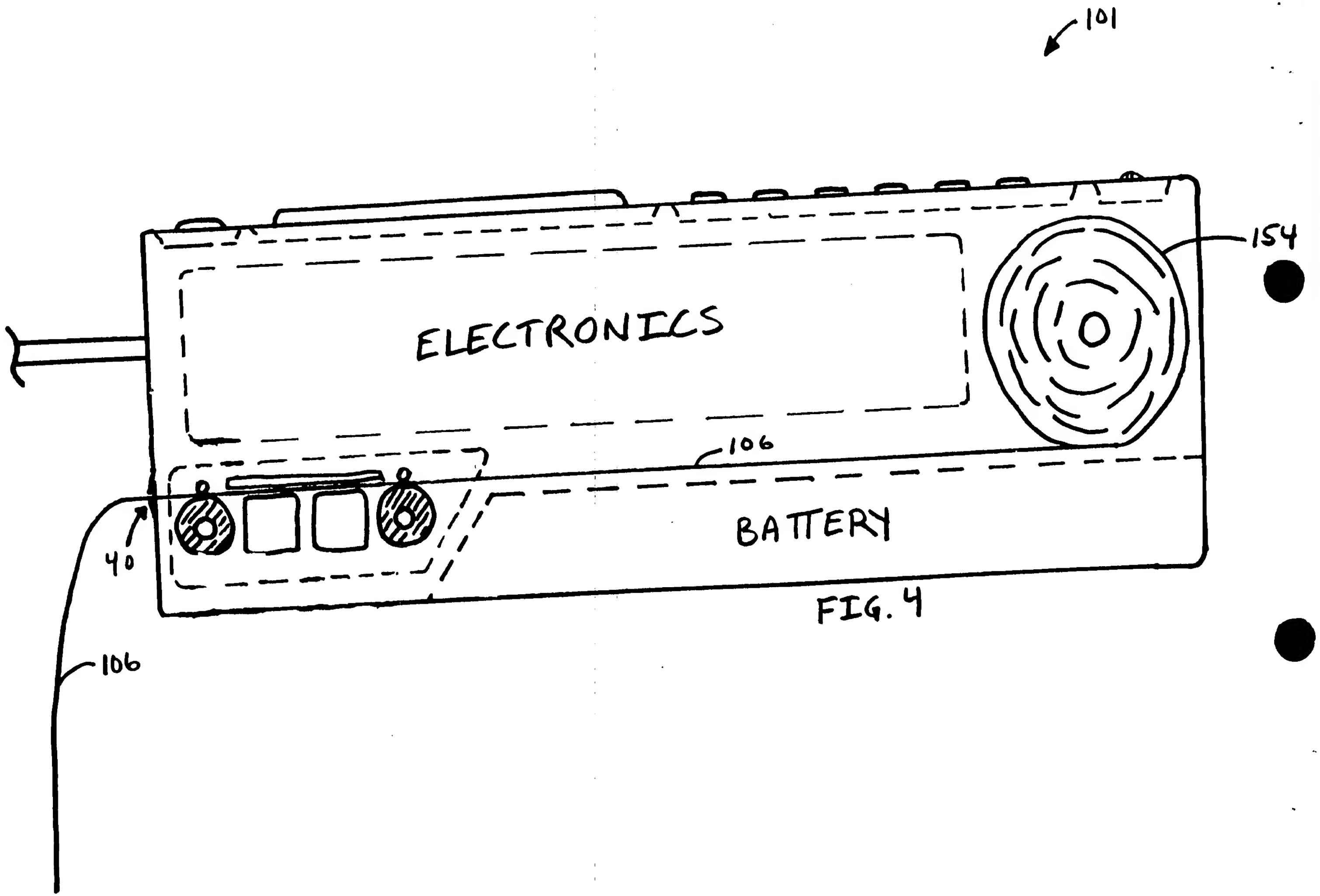
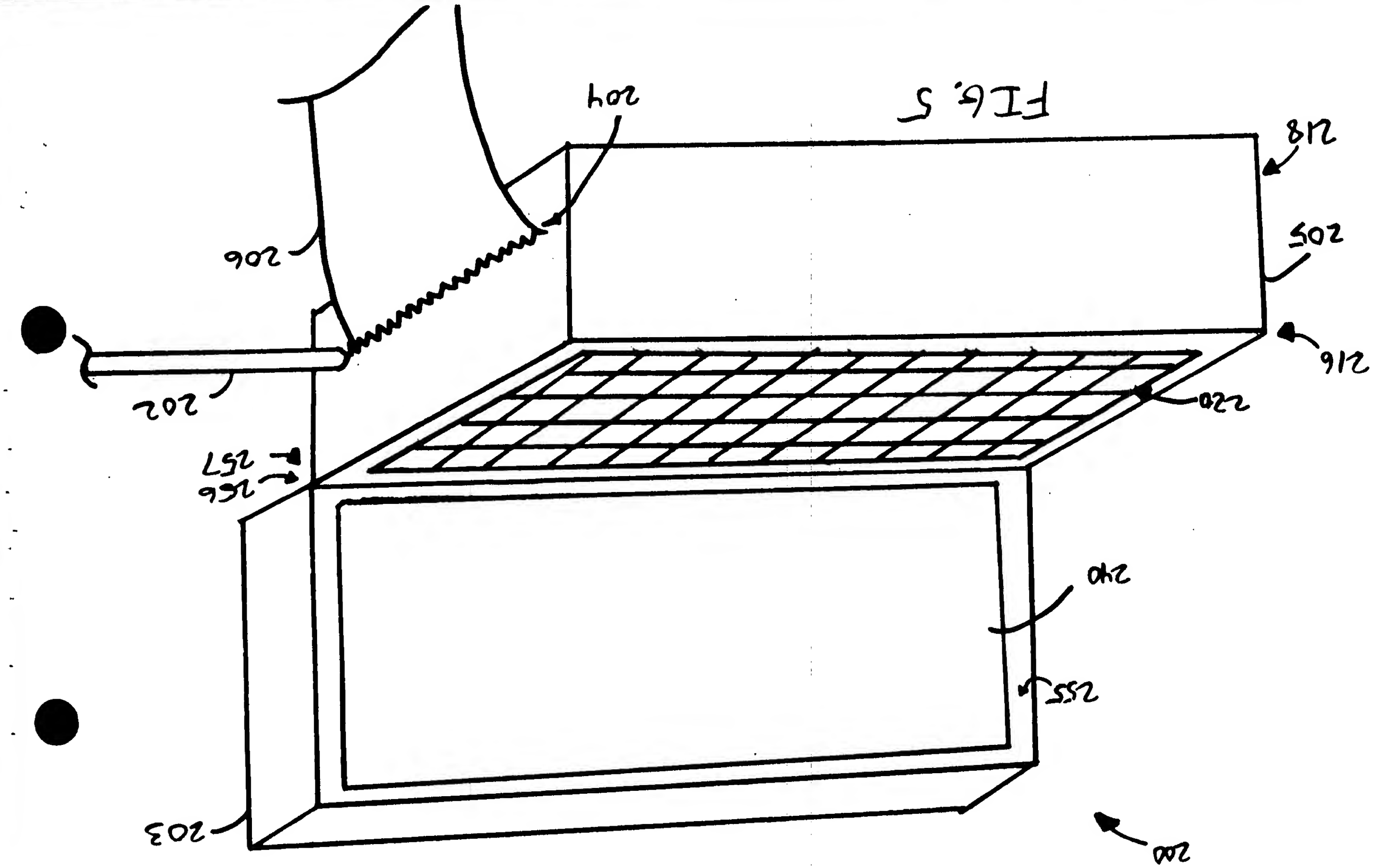


FIG. 4

FIG. 5



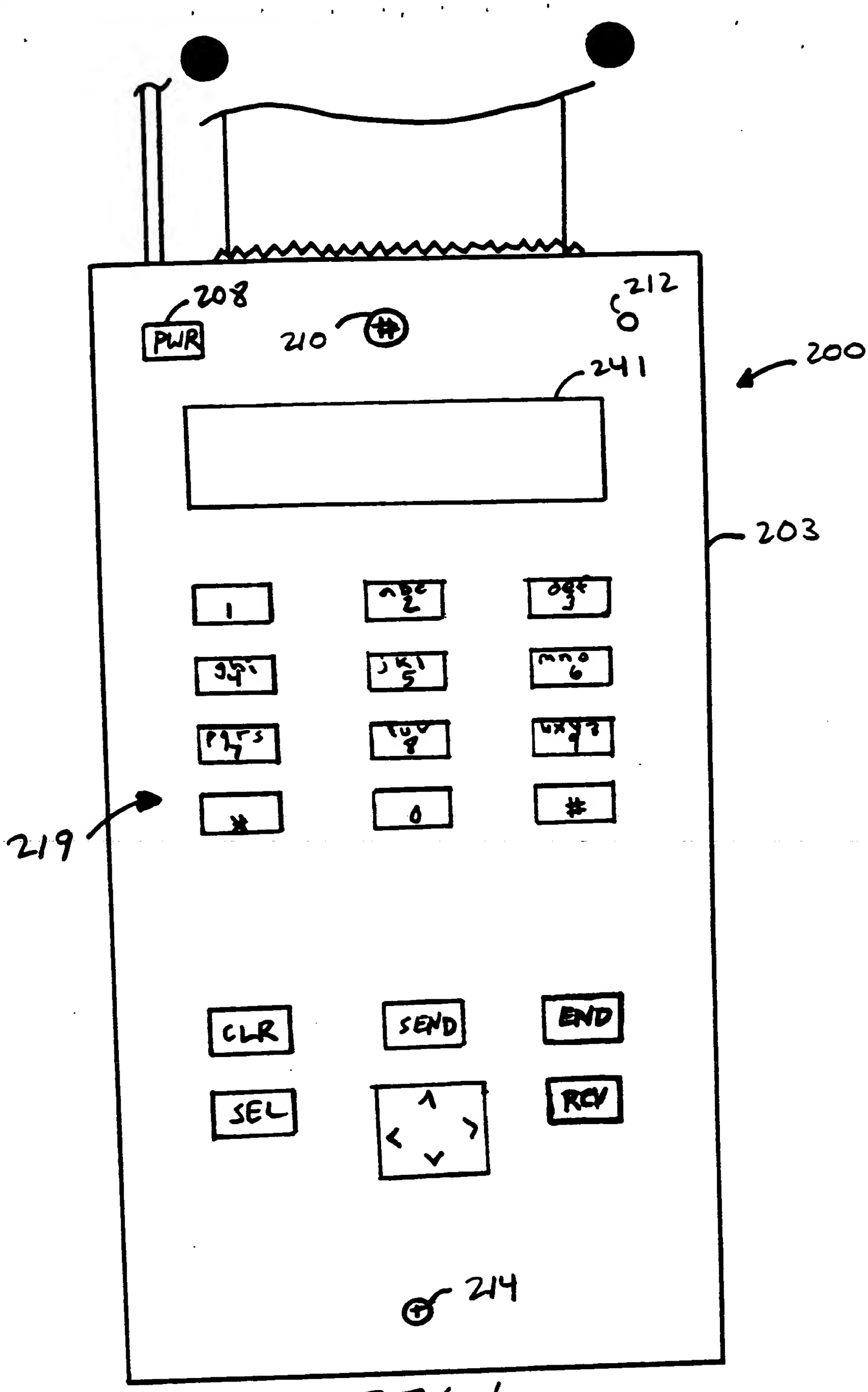


FIG. 6

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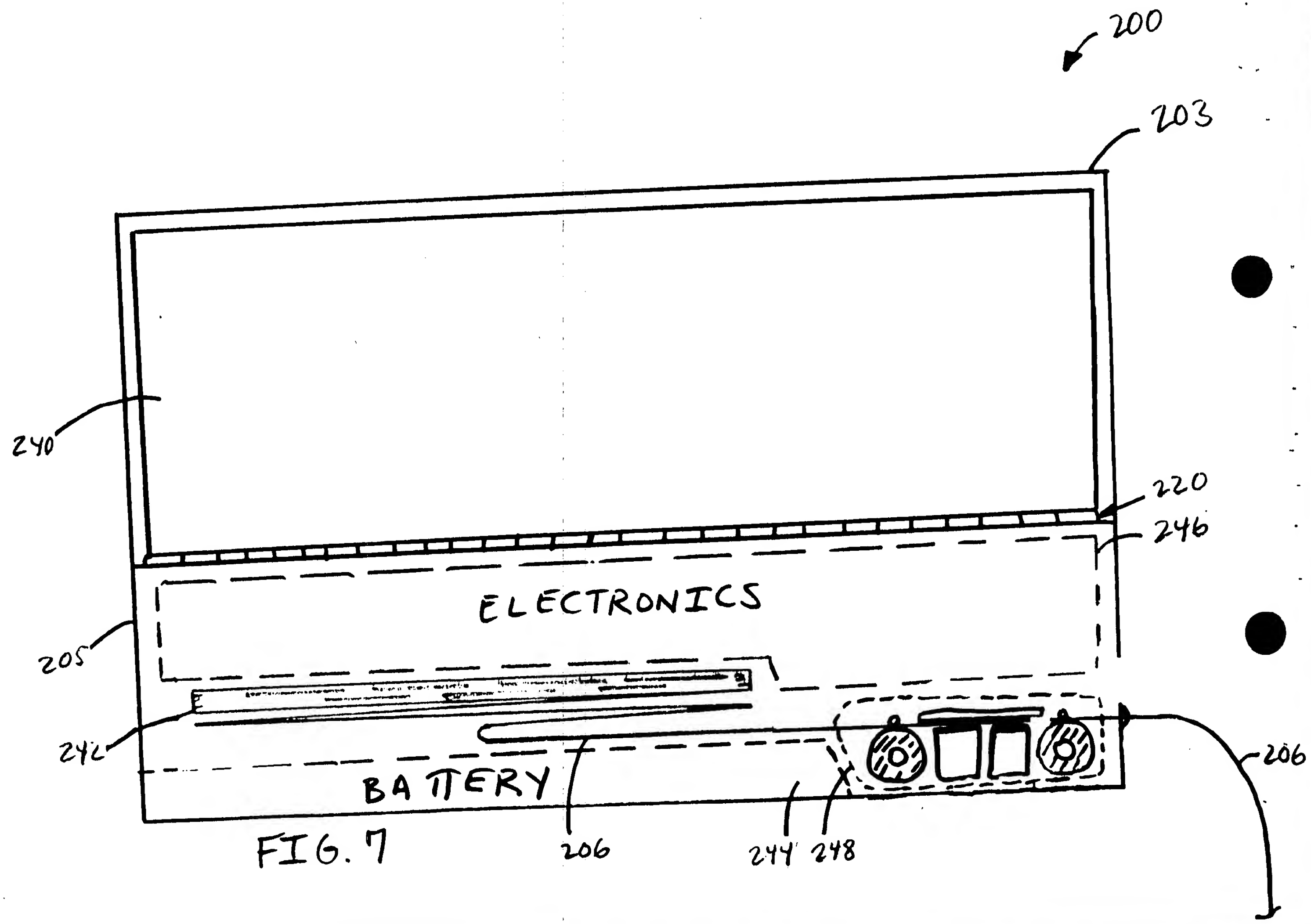

FIG. 7

6,898,256 B1

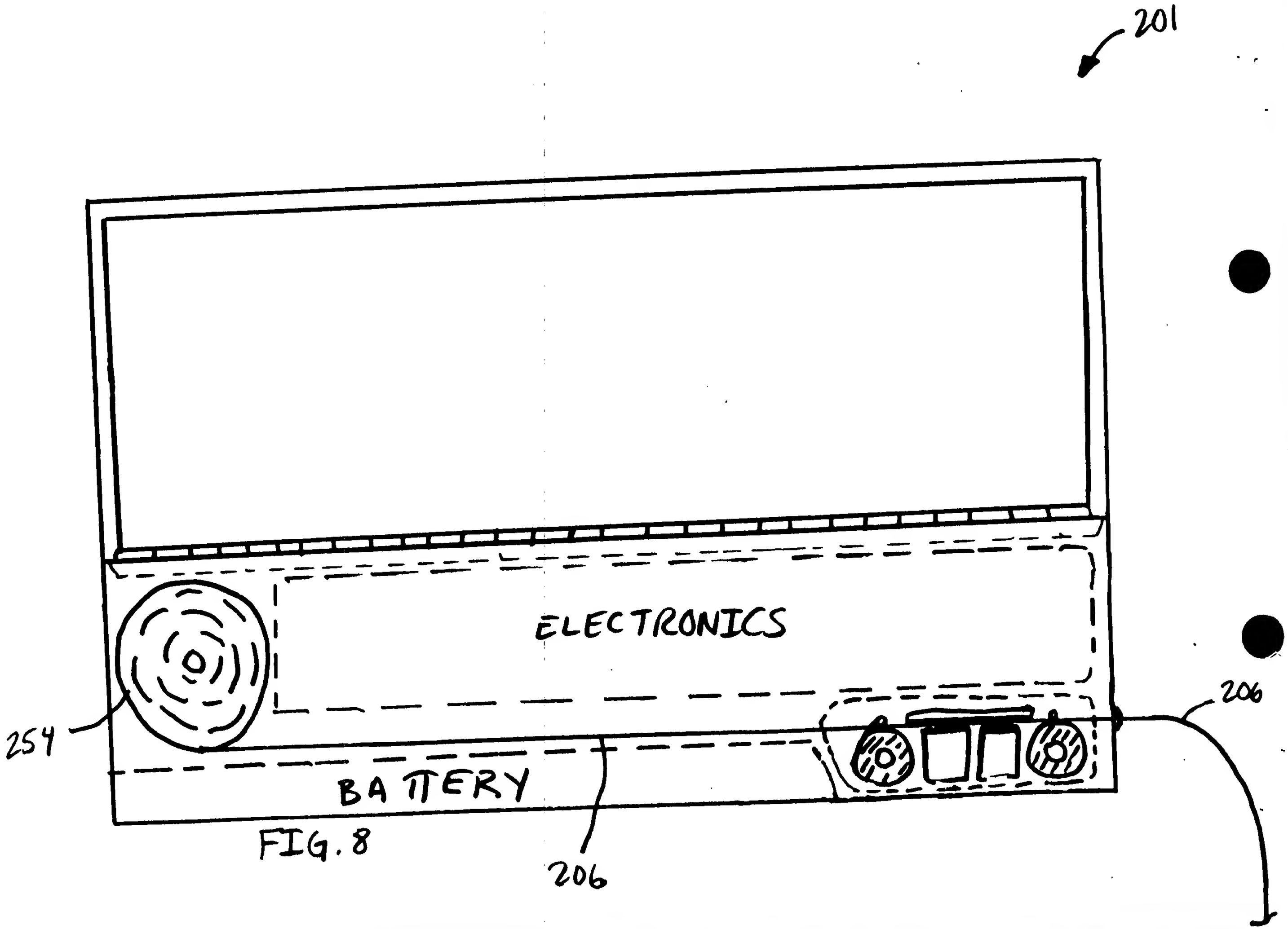

FIG. 8

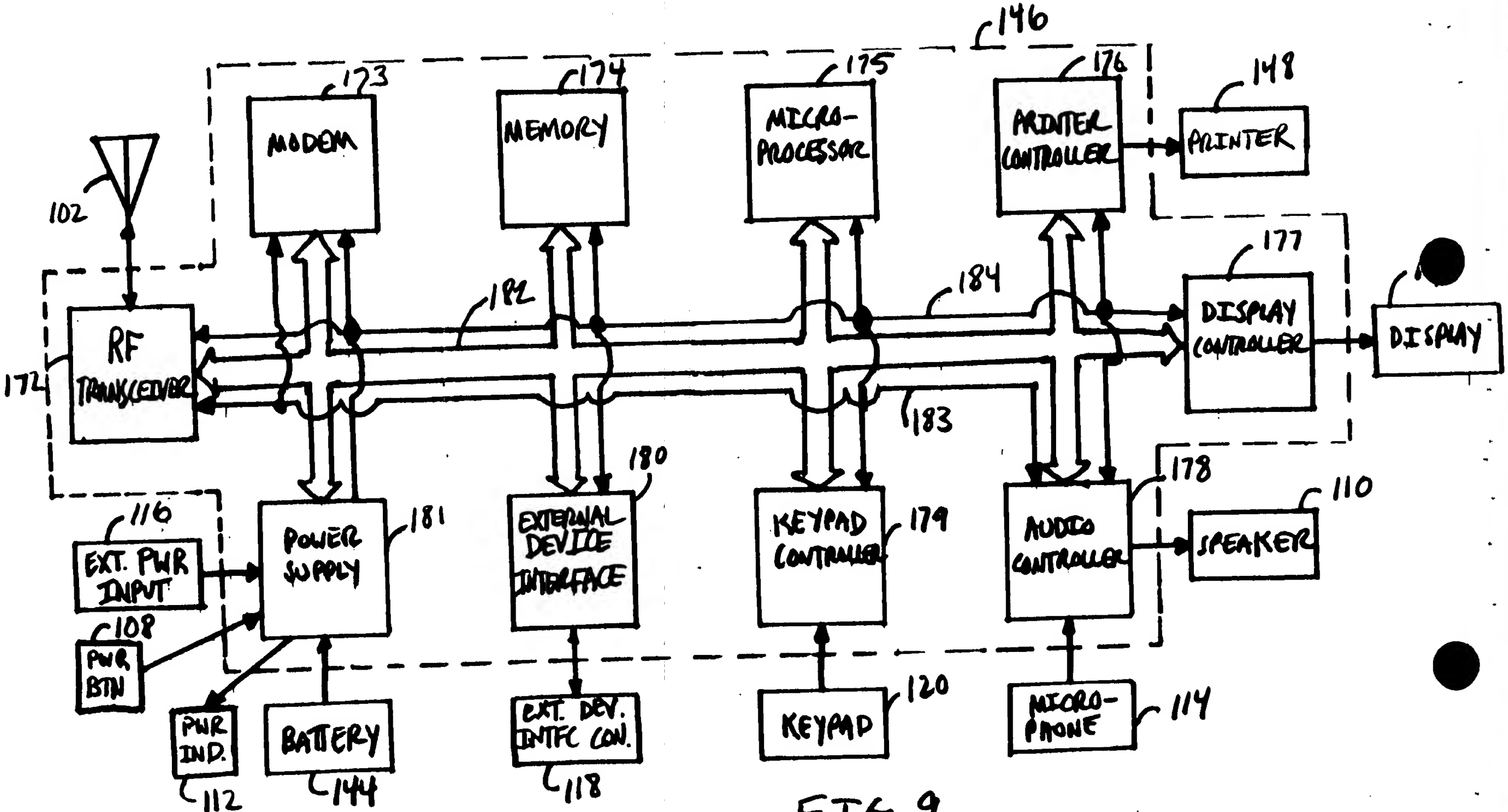
146
MODEM
123
MEMORY
174
MICRO-PROCESSOR
175
PRINTER CONTROLLER
176
PRINTER
148
102
RF TRANSCEIVER
172
182
184
DISPLAY CONTROLLER
177
DISPLAY
183
180
178
110
116
EXT. PWR INPUT
POWER SUPPLY
181
EXTERNAL DEVICE INTERFACE
KEYPAD CONTROLLER
179
AUDIO CONTROLLER
SPEAKER
108
PWR BTN
PWR IND.
112
BATTERY
144
EXT. DEV. INTFC CON.
118
KEYPAD
120
MICRO-PHONE
114

FIG. 9

4,280,135

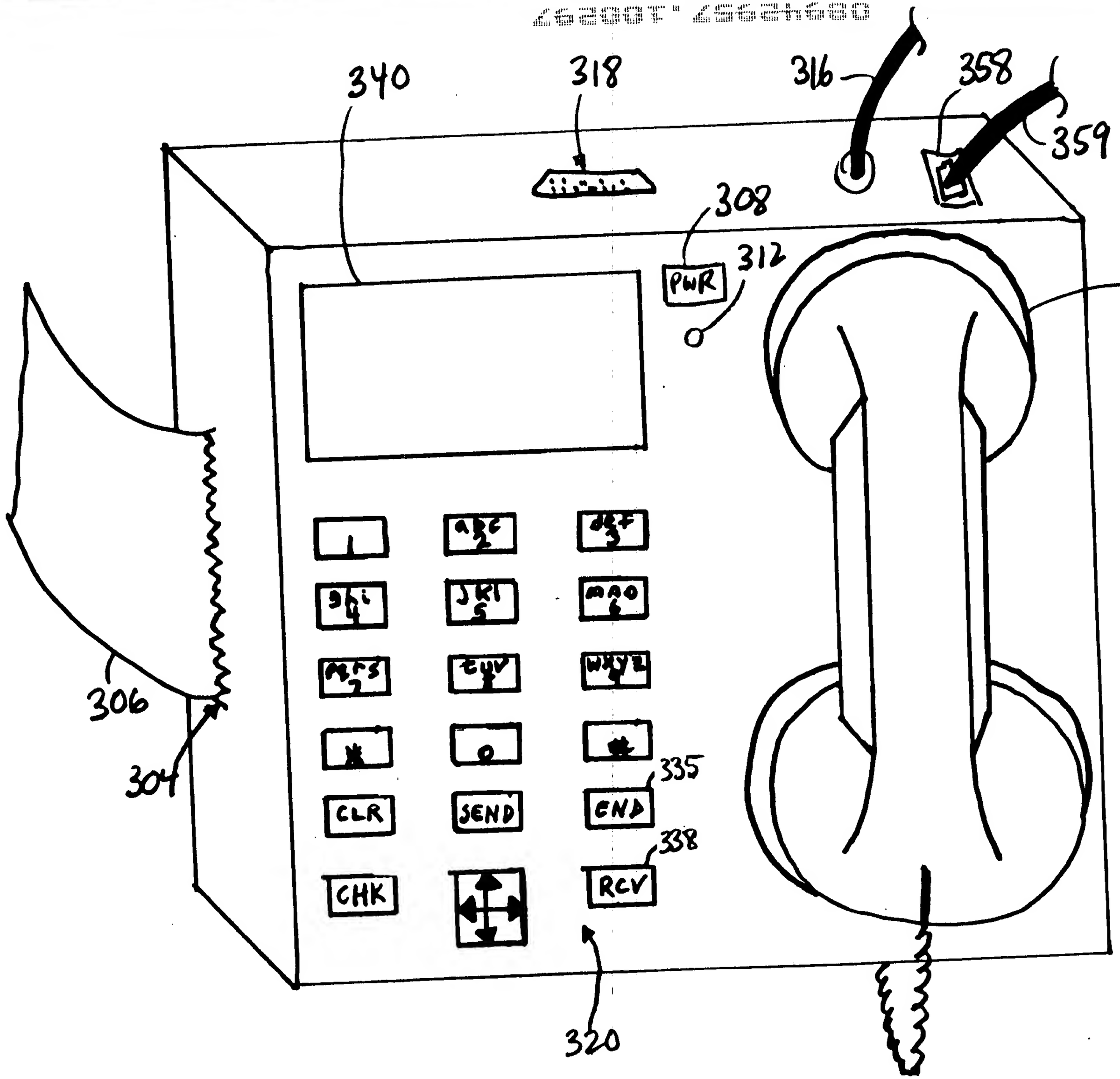

FIG. 10

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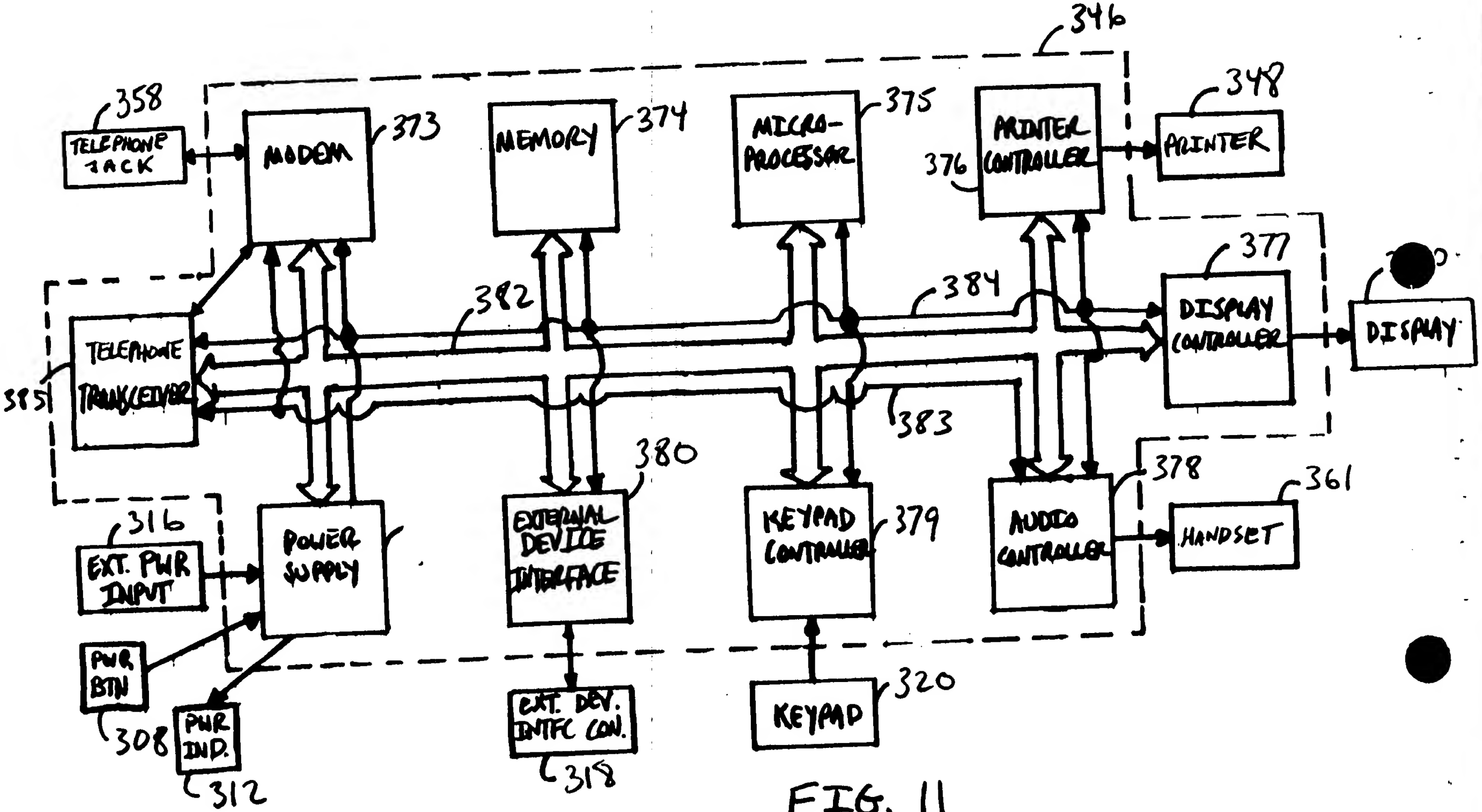

FIG. 11

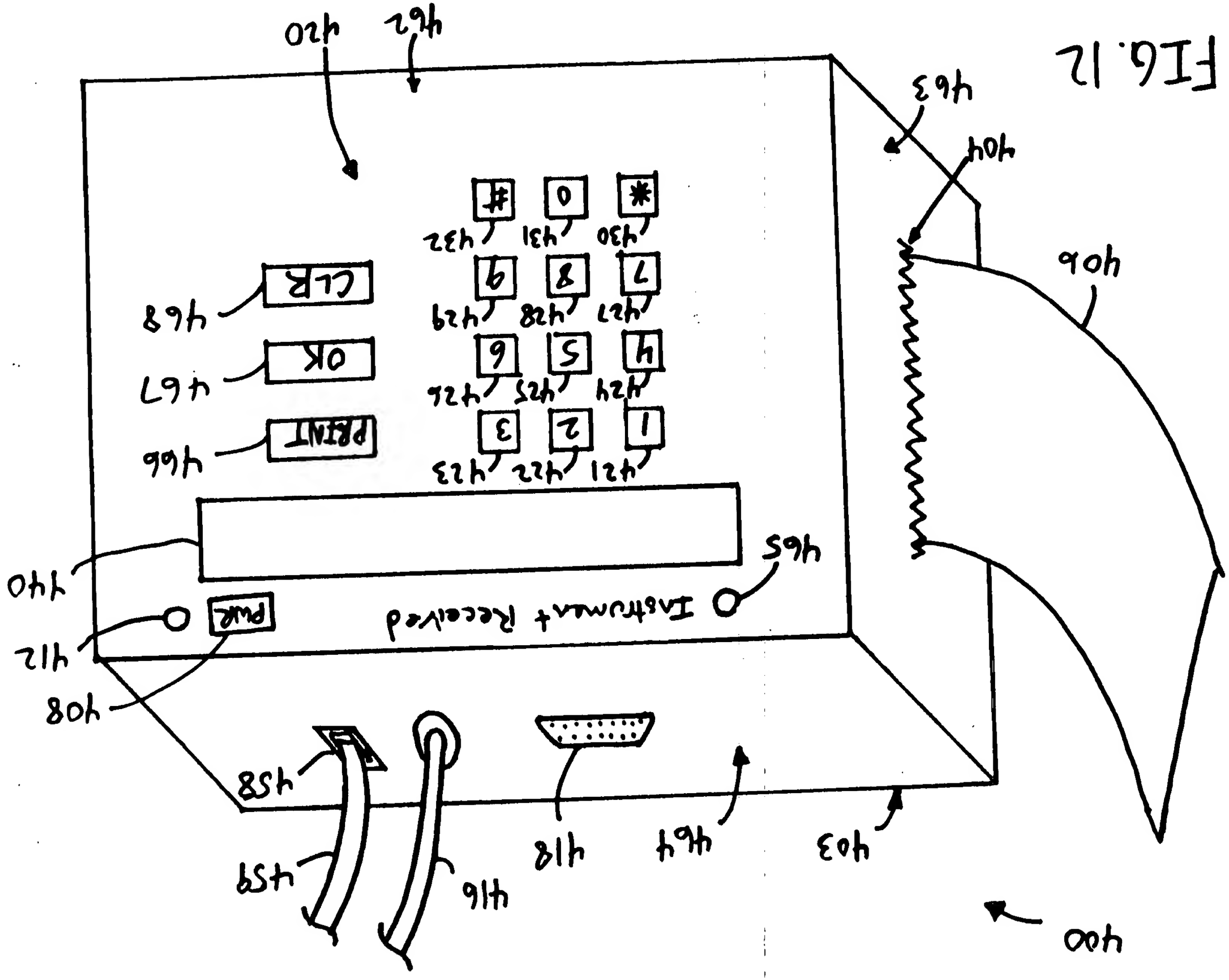
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FIG. 12

6,290,957

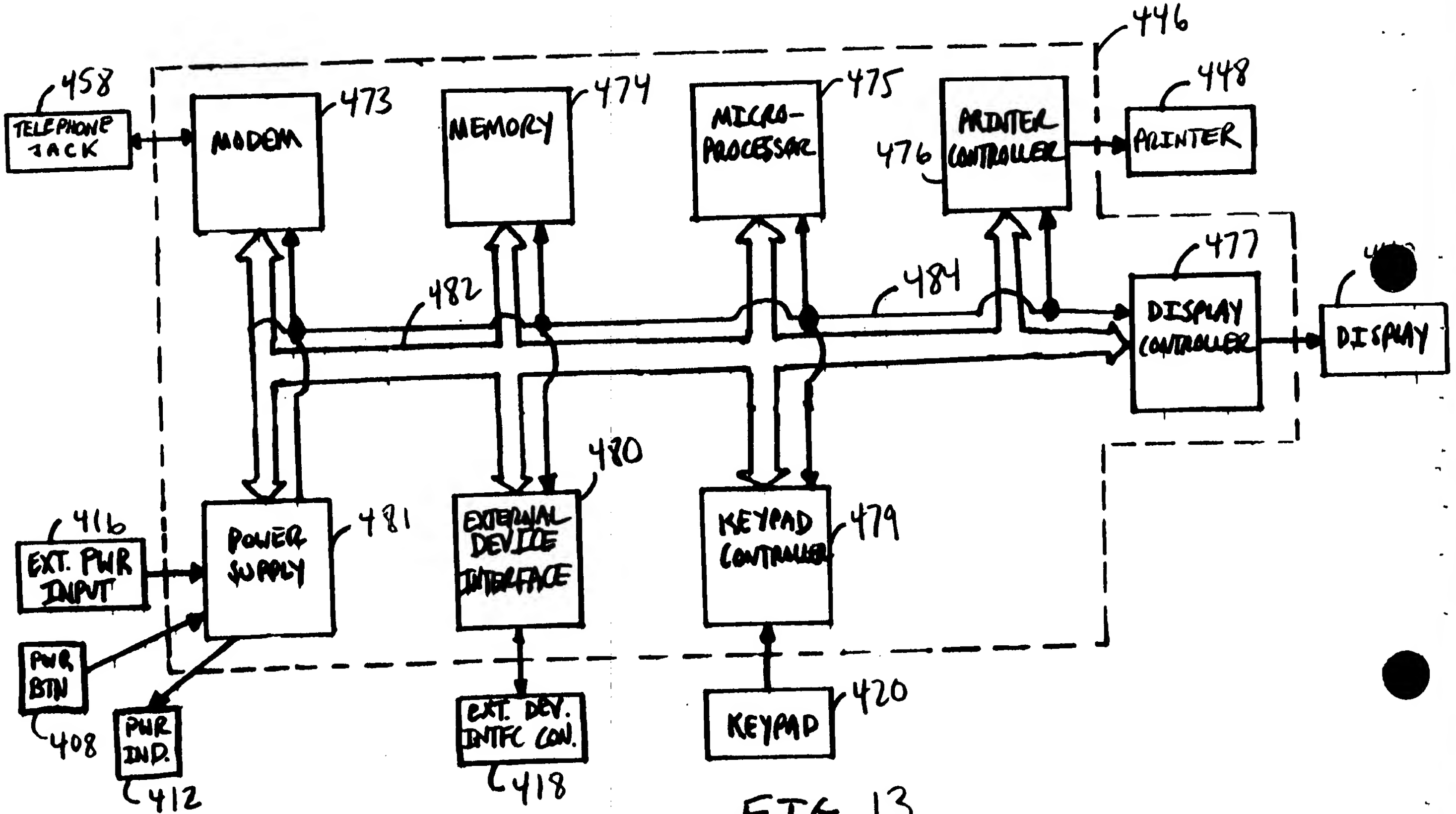

FIG. 13

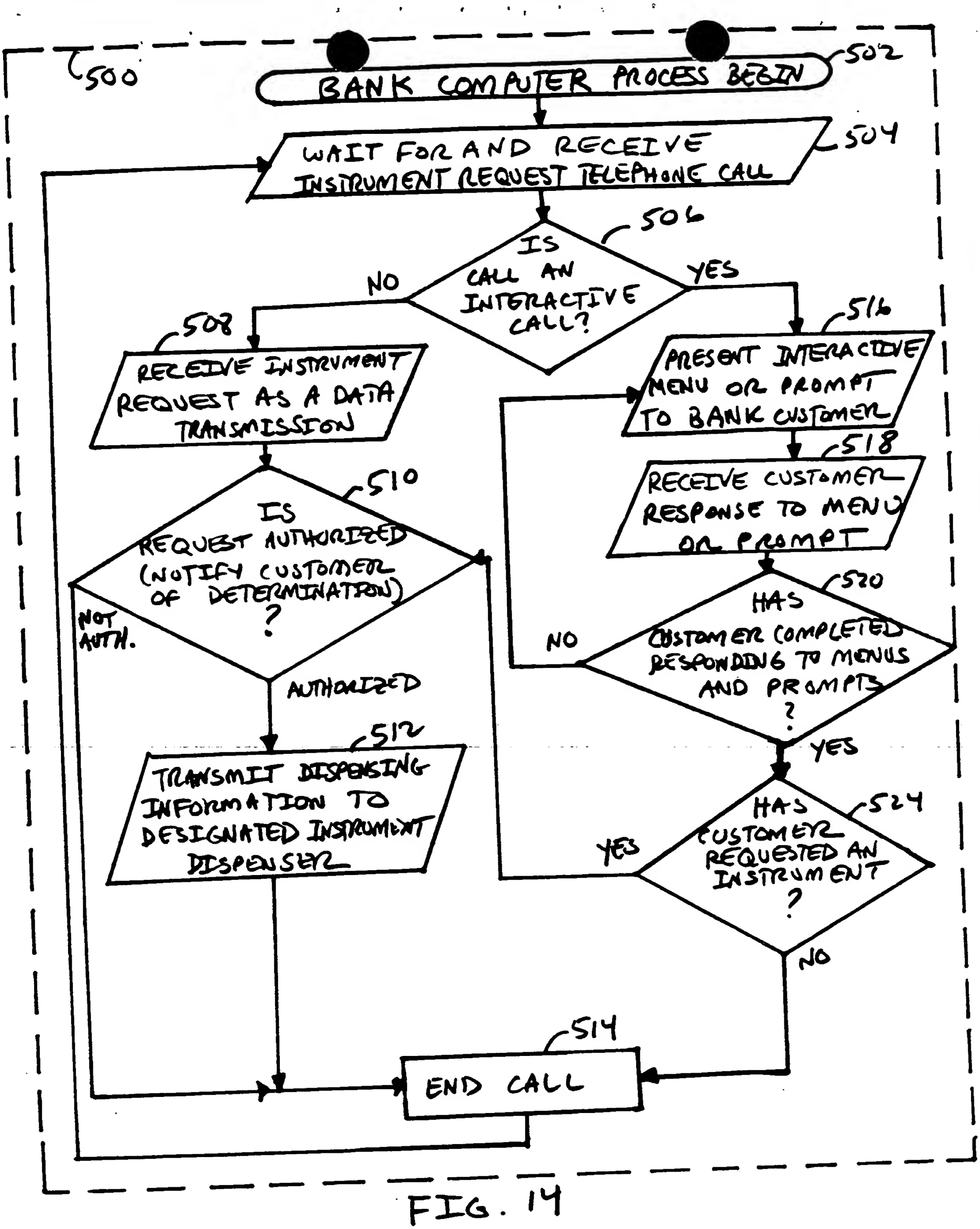
500
BANK COMPUTER PROCESS BEGIN
502
WAIT FOR AND RECEIVE INSTRUMENT REQUEST TELEPHONE CALL
504
IS CALL AN INTERACTIVE CALL?
506
NO
YES
RECEIVE INSTRUMENT REQUEST AS A DATA TRANSMISSION
508
PRESENT INTERACTIVE MENU OR PROMPT TO BANK CUSTOMER
516
RECEIVE CUSTOMER RESPONSE TO MENU OR PROMPT
518
IS REQUEST AUTHORIZED (NOTIFY CUSTOMER OF DETERMINATION)?
510
NOT AUTH.
AUTHORIZED
HAS CUSTOMER COMPLETED RESPONDING TO MENUS AND PROMPTS?
520
NO
YES
TRANSMIT DISPENSING INFORMATION TO DESIGNATED INSTRUMENT DISPENSER
512
HAS CUSTOMER REQUESTED AN INSTRUMENT?
524
YES
NO
END CALL
514

FIG. 14

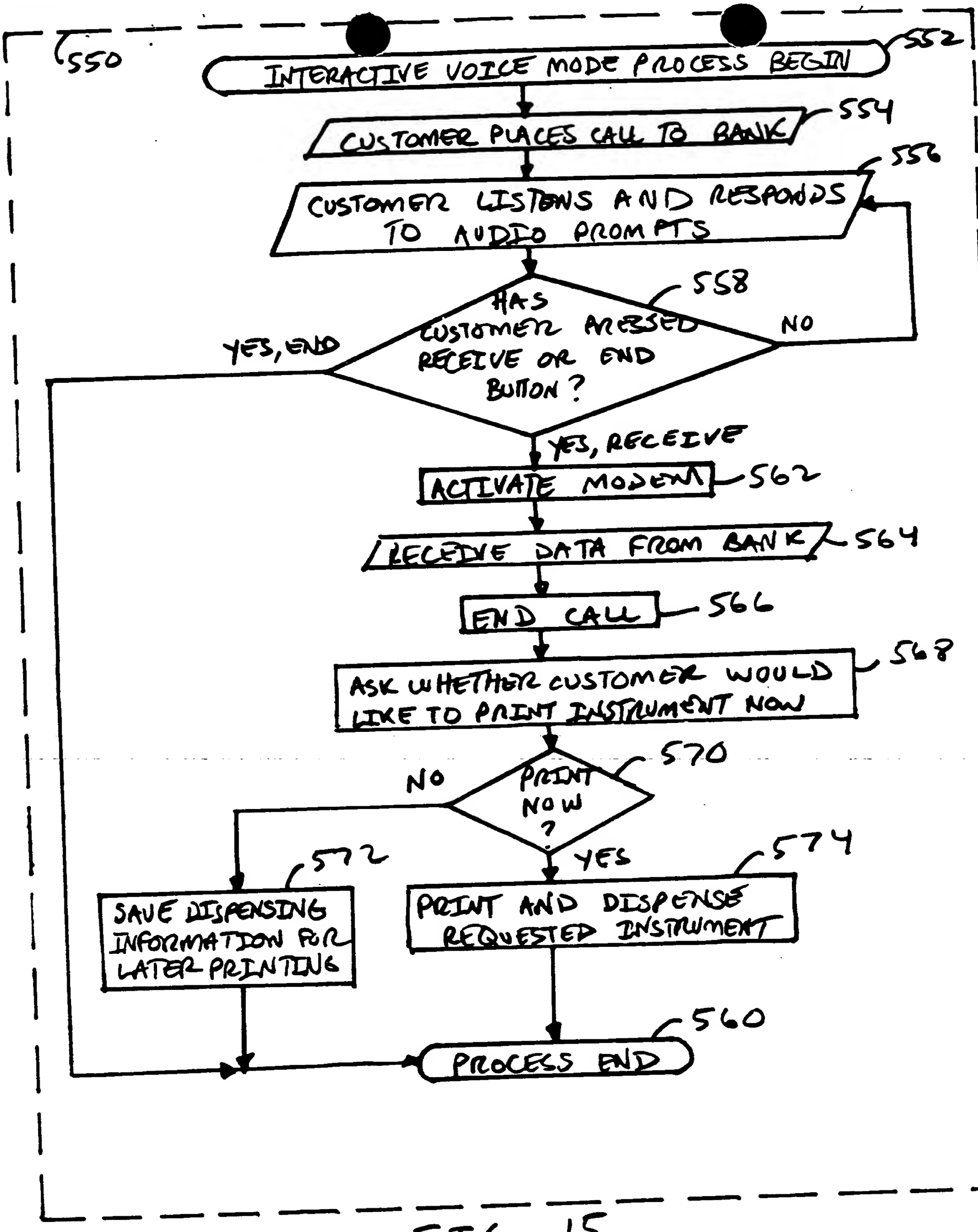
550
INTERACTIVE VOICE MODE PROCESS BEGIN
552
CUSTOMER PLACES CALL TO BANK
554
CUSTOMER LISTENS AND RESPONDS TO AUDIO PROMPTS
556
HAS CUSTOMER PRESSED RECEIVE OR END BUTTON?
558
YES, END
NO
YES, RECEIVE
ACTIVATE MODEM
562
RECEIVE DATA FROM BANK
564
END CALL
566
ASK WHETHER CUSTOMER WOULD LIKE TO PRINT INSTRUMENT NOW
568
PRINT NOW?
570
NO
YES
SAVE DISPENSING INFORMATION FOR LATER PRINTING
572
PRINT AND DISPENSE REQUESTED INSTRUMENT
574
PROCESS END
560

FIG. 15

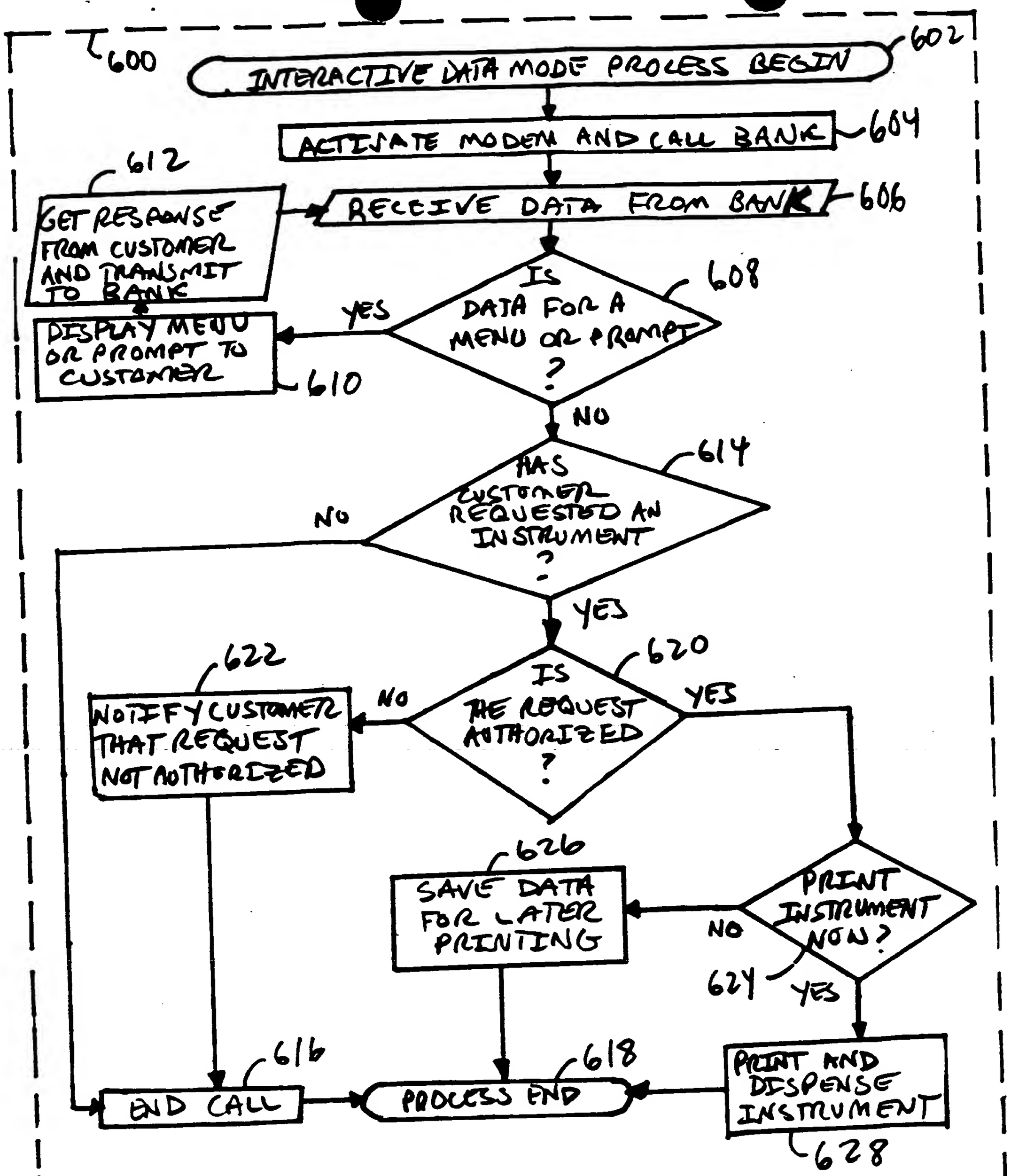
600
INTERACTIVE DATA MODE PROCESS BEGIN
602
ACTIVATE MODEM AND CALL BANK
604
RECEIVE DATA FROM BANK
606
IS DATA FOR A MENU OR PROMPT ?
608
YES
DISPLAY MENU OR PROMPT TO CUSTOMER
610
612
GET RESPONSE FROM CUSTOMER AND TRANSMIT TO BANK
NO
HAS CUSTOMER REQUESTED AN INSTRUMENT ?
614
NO
YES
IS THE REQUEST AUTHORIZED ?
620
NO
YES
NOTIFY CUSTOMER THAT REQUEST NOT AUTHORIZED
622
PRINT INSTRUMENT NOW?
624
NO
YES
SAVE DATA FOR LATER PRINTING
626
PRINT AND DISPENSE INSTRUMENT
628
END CALL
616
PROCESS END
618

FIG. 16

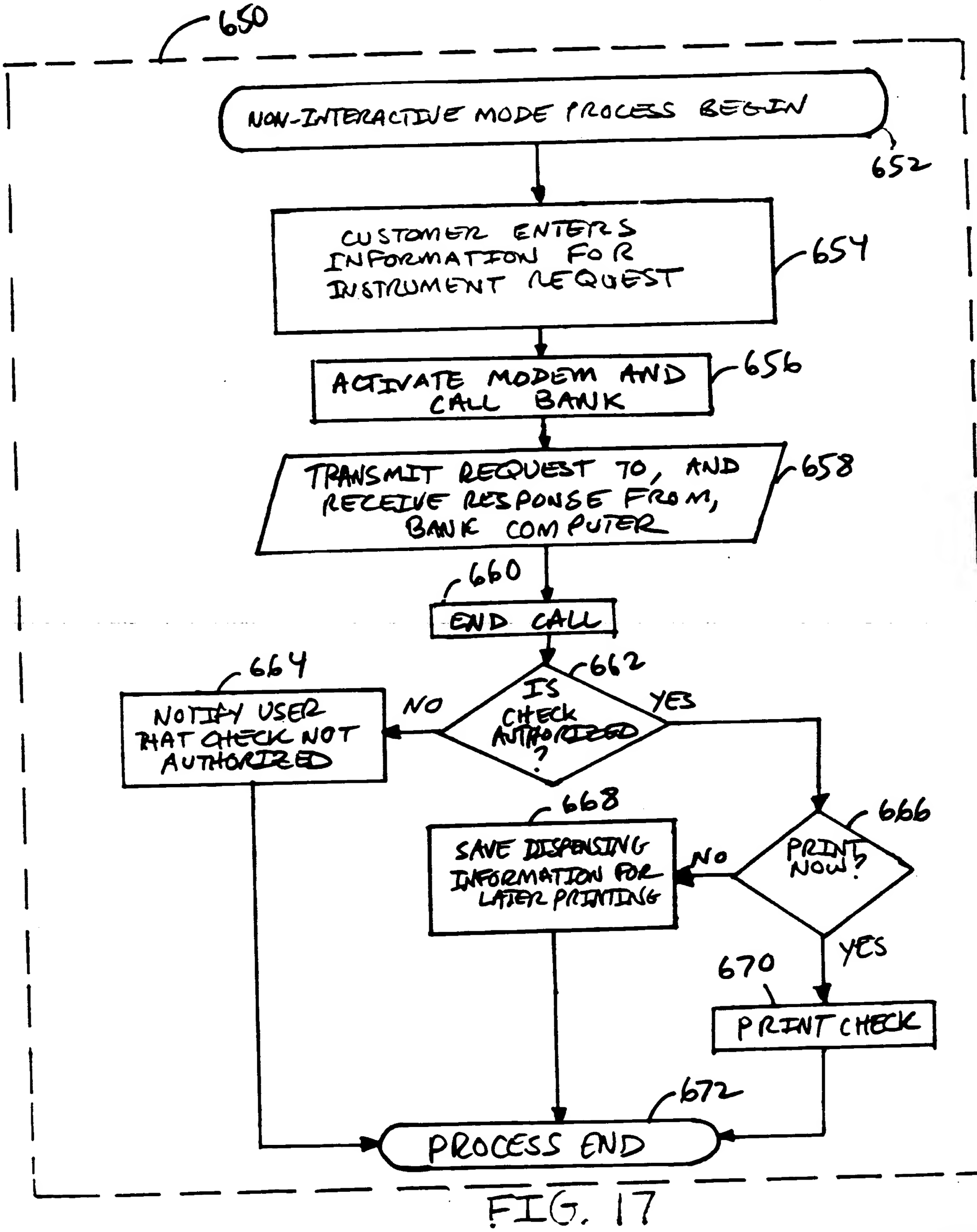
650
NON-INTERACTIVE MODE PROCESS BEGIN
652
CUSTOMER ENTERS INFORMATION FOR INSTRUMENT REQUEST
654
ACTIVATE MODEM AND CALL BANK
656
TRANSMIT REQUEST TO, AND RECEIVE RESPONSE FROM, BANK COMPUTER
658
660
END CALL
662
IS CHECK AUTHORIZED ?
NO
YES
664
NOTIFY USER THAT CHECK NOT AUTHORIZED
668
SAVE DISPENSING INFORMATION FOR LATER PRINTING
666
PRINT NOW?
NO
YES
670
PRINT CHECK
672
PROCESS END

FIG. 17

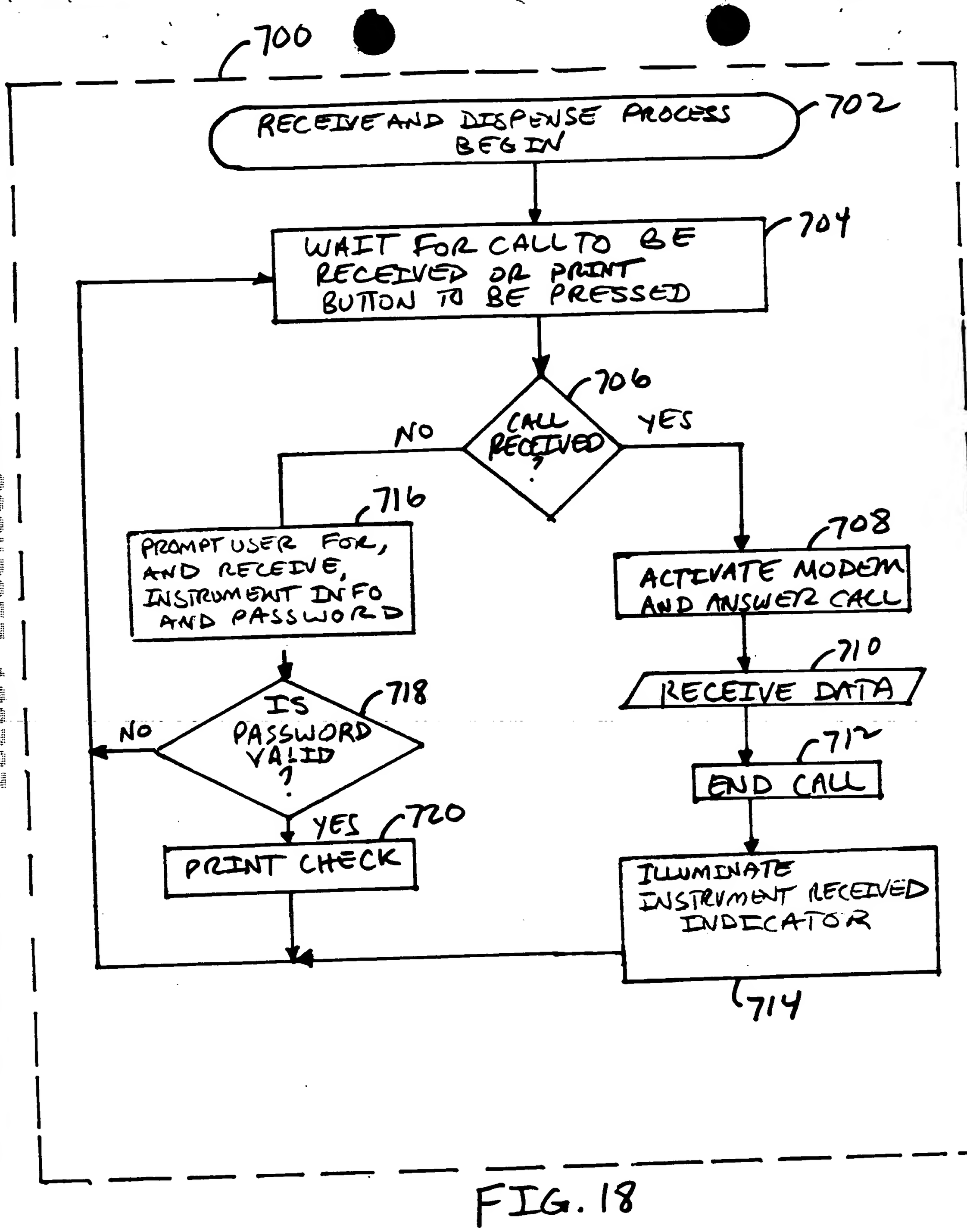
700
RECEIVE AND DISPENSE PROCESS BEGIN
702
WAIT FOR CALL TO BE RECEIVED OR PRINT BUTTON TO BE PRESSED
704
706
CALL RECEIVED ?
NO
YES
716
PROMPT USER FOR, AND RECEIVE, INSTRUMENT INFO AND PASSWORD
708
ACTIVATE MODEM AND ANSWER CALL
710
RECEIVE DATA
712
END CALL
718
IS PASSWORD VALID ?
NO
YES
720
PRINT CHECK
ILLUMINATE INSTRUMENT RECEIVED INDICATOR
714

FIG. 18